

SECRET

9 August 1963

*File DAvid Clark
GN-764-1
A + I*

Dear John,

Reference is made to your letter, JAR-794-166 dated 31 July 1963 pertaining to Contract GN-764-1.

25X1A

The Purchase Description furnished with your letter is insufficient to define the S-901E Full Pressure Suit. Specifications are required defining the eighteen (18) items listed as to materials, design, performance, test conditions and qualification tests to be performed.

The specification for the total assembly must be made part of the present contract (similar to MIL-F-27628 for the A/P22S-2 suit), with individual component specifications to follow during the performance of the contract.

As discussed and agreed during our meeting of 21 June 1963, it is essential that we have good specifications which properly describe the suit type being procured. This data will be very important and most useful in any follow-on procurement of suits. I have discussed this matter of specifications with [redacted] and he agrees that this requirement is essential to proper procurement.

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For your guidance, MIL-F-27628, MIL-R-27689, and MIL-C-27690 are attached as samples of what is required.

Regards,

25X1A



DOCUMENT NO. _____
 NO CHANGE IN CLASS. DECLASSIFIED
 CLASS. CHANGED TO: TS 8 D 27/11
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 AUTH: HR 76-2
 DATE 22/7/81 REVIEWER: 064540

7 AUG 1963

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JAR-794-166
31 July 1963

Subject: Contract GN-764-1

Gentlemen:

Enclosed are copies of S901E Purchase Description and 12 Category Height-Weight Sizing Program forwarded for review and information.

Provisioning Parts Breakdown, revised to include suggested Depot Spares, will be forwarded upon completion of study of usage and experience data compiled on current equipment.

Cordially,

25X1A

JEF:rm

Enc.

Aug 10 '63

PURCHASE DESCRIPTION

S-901E Flying Outfit, Full Pressure, High Altitude, consists of the following Major Components:

• Item #1		Helmet Assembly ACS-8SON - Less ACS-663 Exhalation Valve and Regulator - Hose Assembly, Male & Hose Assembly, Female.
• Item #2		Exhalation Valve - ACS-666.
• Item #3	ACS-1220	Regulator - Helmet.
Item #4	ACS-1221	Hose Assembly - Male.
Item #5	ACS-1222	Hose Assembly - Female - Helmet.
• Item #6		Suit Assembly - ACS-764 - Less Gloves ACS-368.
• Item #7		Gloves, Full Pressure - ACS-368.
Item #8		Exterior Coverall - ACS-434.
Item #9		Floating Garment - ACS-422.
Item #10		Leather Boots - ACS-516.
Item #11		Fabric Boots - ACS-730.
Item #12	ACS-1223	Hose Assembly - Male (Internal) Suit.
Item #13	ACS-1224	Hose Assembly - Female (Internal) Suit.
Item #14	ACS-1225	Hose Assembly - Left Hand (External) Suit.
Item #15	ACS-1226	Hose Assembly - Right Hand (External) Suit.
Item #16	ACS-1227	Controller
Item #17		Underwear (2) Sets.
Item #18	ACS-1228	Suit Case Assembly.

12 CATEGORY HEIGHT-WEIGHT SIZING PROGRAM
 Approved For Release 2002/06/11 : CIA-RDP66B00728R000200050009-4
 (Based on measurements from WADC TR 52-321)

Page 1 of 2

	Height (inches)	Weight (pounds)	Vert. Trunk Circ. (Stand.)	Crotch Height <small>*1.</small>	Upper Leg Length <small>*2.</small>	Lower Leg Sleeve Length <small>*3.</small>	Biacromial Diameter <small>*4.</small>
Small Short	53.00-65.90	125-149	64.00	30.625	11.750	15.625	31.695
Small Reg.	56.00-68.90	125-149	64.75	32.000	12.250	16.375	32.615
Small Long	59.00-71.90	125-149	65.75	33.625	13.000	17.125	33.390
Medium Short	64.50-67.40	150-174	66.25	31.125	11.875	15.875	32.525
Medium Reg.	67.50-70.40	150-174	67.25	33.000	12.750	16.750	33.500
Medium Long	70.50-73.40	150-174	68.00	34.500	13.250	17.750	33.935
Large Short	66.00-68.90	175-199	69.25	31.875	12.000	16.375	32.700
Large Reg.	69.00-71.90	175-199	70.00	33.500	12.750	17.250	33.945
Large Long	72.00-74.90	175-199	70.00	35.000	13.500	17.875	34.505
X-Large Short	67.50-70.40	200-224	71.75	32.500	12.125	16.875	33.885
X-Large Reg.	70.50-73.40	200-224	72.00	34.125	12.875	17.750	34.570
X-Large Long	73.50-76.40	200-224	73.00	35.000	12.875	18.375	35.190
	Shoulder Elbow	Elbow Wrist	Neck Circ.	Chest Circ.	Waist Circ.	Buttock Circ. (standing)	Thigh Circ.
Small Short	13.500	10.070	13.50-15.50	34.25-39.00	27.25-31.25	33.50-37.25	18.75-22.75
Small Reg.	14.000	10.490	13.50-15.50	34.25-39.00	27.25-31.25	33.50-37.25	18.75-22.75
Small Long	14.500	10.765	13.50-15.50	34.25-39.00	27.25-31.25	33.50-37.25	18.75-22.75
Medium Short	13.750	10.400	14.00-16.00	36.00-41.00	29.00-34.00	35.50-39.50	20.25-24.25
Medium Reg.	14.375	10.750	14.00-16.00	36.00-41.00	29.00-34.00	35.50-39.50	20.25-24.25
Medium Long	14.750	10.810	14.00-16.00	36.00-41.00	29.00-34.00	35.50-39.50	20.25-24.25
Large Short	13.750	10.450	14.50-16.50	38.00-43.25	31.50-37.00	37.75-41.75	21.75-25.50
Large Reg.	14.625	10.820	14.50-16.50	38.00-43.25	31.50-37.00	37.75-41.75	21.75-25.50
Large Long	15.125	10.880	14.50-16.50	38.00-43.25	31.50-37.00	37.75-41.75	21.75-25.50
X-Large Short	14.500	10.760	15.00-17.00	40.50-45.25	34.25-39.75	40.00-43.75	23.00-27.00
X-Large Reg.	14.875	11.070	15.00-17.00	40.50-45.25	34.25-39.75	40.00-43.75	23.00-27.00
X-Large Long	15.375	11.190	15.00-17.00	40.50-45.25	34.25-39.75	40.00-43.75	23.00-27.00

	Lower Thigh Circ.	Knee Circ.	Calf Circ.	Ankle Circ.	Scye Circ.	Biceps Circ. (Flexed)	Elbow Circ. (Flexed)
Small Short	14.25-18.00	14.50	12.50-14.75	7.75-9.25	15.50-19.00	10.50-13.25	12.75
Small Reg.	14.25-18.00	14.50	12.50-14.75	7.75-9.25	15.50-19.00	10.50-13.25	12.75
Small Long	14.25-18.00	14.50	12.50-14.75	7.75-9.25	15.50-19.00	10.50-13.25	12.75
Medium Short	15.50-19.00	15.50	13.25-15.50	8.25-9.75	16.25-19.75	11.25-14.00	13.00
Medium Reg.	15.50-19.00	15.50	13.25-15.50	8.25-9.75	16.25-19.75	11.25-14.00	13.00
Medium Long	15.50-19.00	15.50	13.25-15.50	8.25-9.75	16.25-19.75	11.25-14.00	13.00
Large Short	16.50-20.00	16.25	14.00-16.25	8.50-10.00	17.00-20.75	12.00-14.75	13.50
Large Reg.	16.50-20.00	16.25	14.00-16.25	8.50-10.00	17.00-20.75	12.00-14.75	13.50
Large Long	16.50-20.00	16.25	14.00-16.25	8.50-10.00	17.00-20.75	12.00-14.75	13.50
X-Large Short	17.50-20.75	17.00	14.50-17.00	9.00-10.50	17.75-21.50	13.00-15.75	14.25
X-Large Reg.	17.50-20.75	17.00	14.50-17.00	9.00-10.50	17.75-21.50	13.00-15.75	14.25
X-Large Long	17.50-20.75	17.00	14.50-17.00	9.00-10.50	17.75-21.50	13.00-15.75	14.25

	Forearm (Flexed)	Wrist Circ.	The following Notes are based on Height-Weight Sizing System Charts from WADC TR 52-321
Small Short	10.00-11.75	6.00-7.00	*1. Mid-point of Crotch Height Range
Small Reg.	10.00-11.75	6.00-7.00	*2. Mid-range of Crotch Height minus mid-range of Knee Cap Height equals Upper Leg Length.
Small Long	10.00-11.75	6.00-7.00	*3. Mid-range of Knee Cap Height minus mid-range of Medial Malleolus Height equals Lower Leg Length.
Medium Short	10.75-12.25	6.25-7.25	*4. One half of Maximum Biaxial Diameter plus the mid-range of Shoulder-Elbow plus mid-range of Forearm-Hand Length minus mid-range Hand Length.
Medium Reg.	10.75-12.25	6.25-7.25	
Medium Long	10.75-12.25	6.25-7.25	
Large Short	11.00-12.75	6.50-7.50	
Large Reg.	11.00-12.75	6.50-7.50	
Large Long	11.00-12.75	6.50-7.50	
X-Large Short	11.50-13.50	6.75-7.75	
X-Large Reg.	11.50-13.50	6.75-7.75	
X-Large Long	11.50-13.50	6.75-7.75	